

NIF: Network Interface

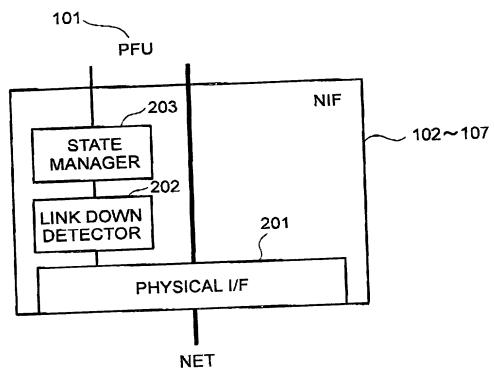
PDPCS: Processor for Directive

Packets to Change State

LA: Learned Address

TOBORDOL CSECT

FIG.2



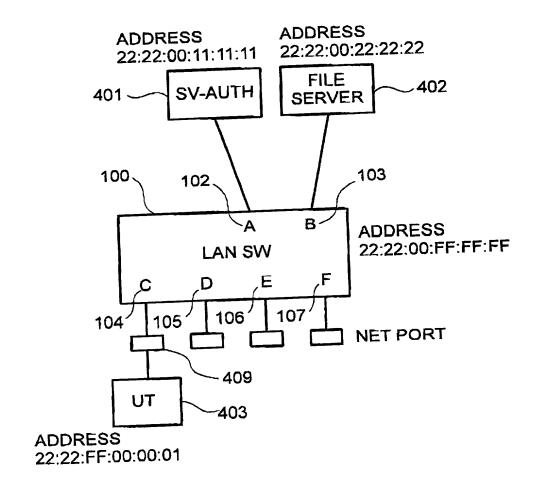
NIF: Network Interface

I/F: Interface

PFU: Packet Forwarding Unit

FIG.3

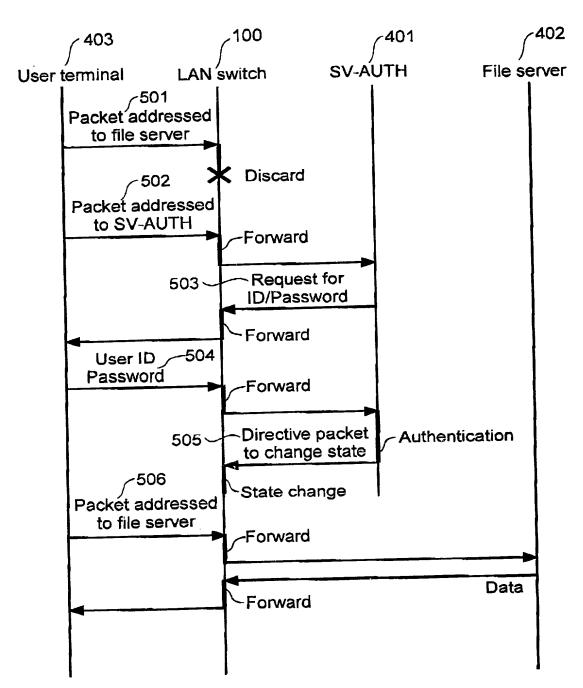
108 301		302
#	Address	Sending Port
1	22:22:00:11:11:11	Α
2	22:22:00:22:22:22	В
3	22:22:00:FF:FF:FF	Х



SV-AUTH: Server for Authentication

UT : User Terminal

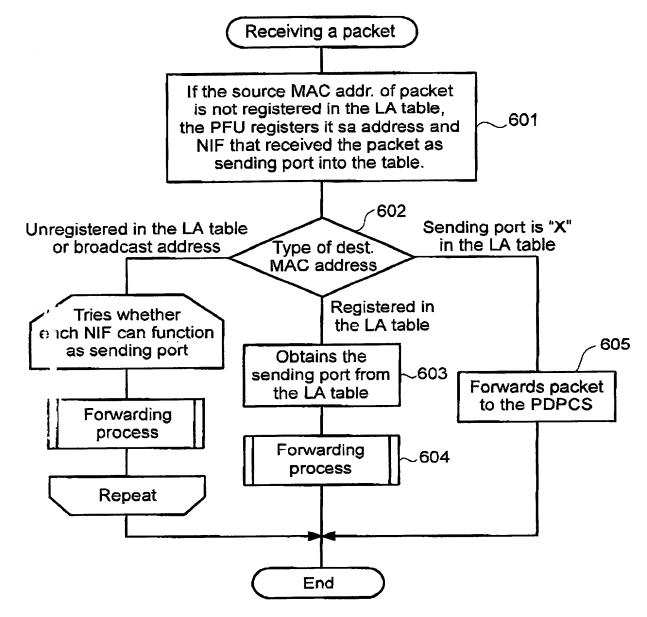
FIG.5



SV-AUTH: Server for Authentication

A CONTROL OF THE SECOND A COLUMN A COLU

FIG.6



LA: Learned Address NIF: Network Interface

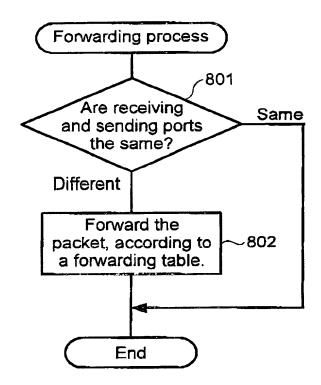
PFU: Packet Forwarding Unit PDPCS: Processor for Directive Packets to Change State

FIG.7

108 301		302
#	Address	Sending Port
1	22:22:00:11:11:11	Α ·
2	22:22:00:22:22:22	В
3	22:22:00:FF:FF:FF	Х
4	22:22:FF:00:00:01	С

FIG.8

Flow of forwarding



And Address of the Ad

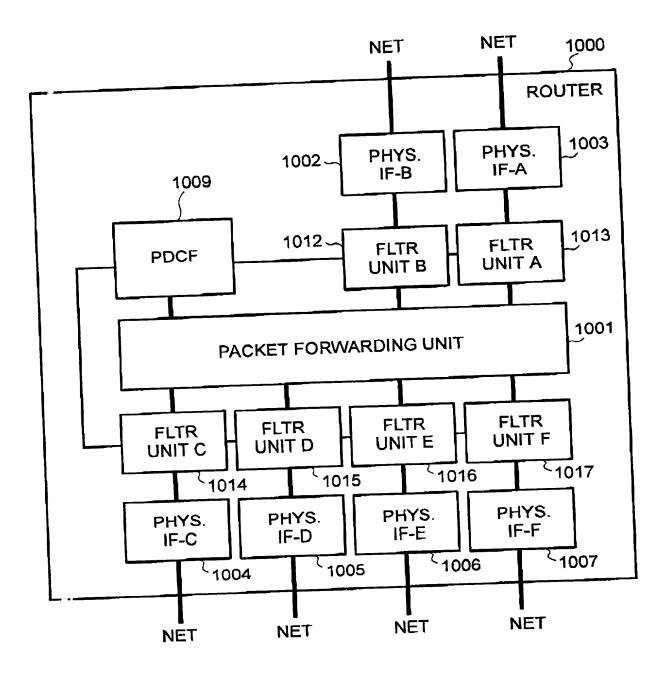
The first fact that the first condition of the first fact that the

FIG.9

901 🔍		State	e of Receiving Port	
		Connected	Disconnected	Stateless
	Connected	Forward	Discard	Forward
State of Sending Port	Disconnected	Discard	Discard	Forward
	Stateless	Forward	Forward	Forward

3.11. 水 指:**数**位**数** 17700 (15.11)**型** (**3**.11 元)

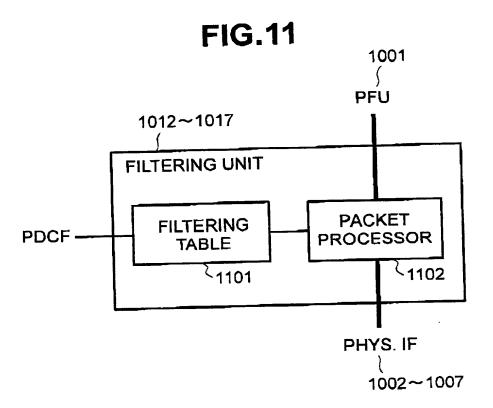
FIG.10



PHYS-IF: Physical Interface PDCF: Processor for Directives

to Change Filtering

FLTR: Filtering



PHYS. IF: Physical Interface
PDCF: Processor for Directives

to Change Filtering

PFU: Packet Forwarding Unit

FIG.12

1101	1201	1202	1203
#	Dest. Addr. Condition	Source Addr. Condition	Forward/Discard Flag
1	192.168.1.1	Arbitrary	Forward
2	Arbitrary	Arbitrary	Discard

FIG.13

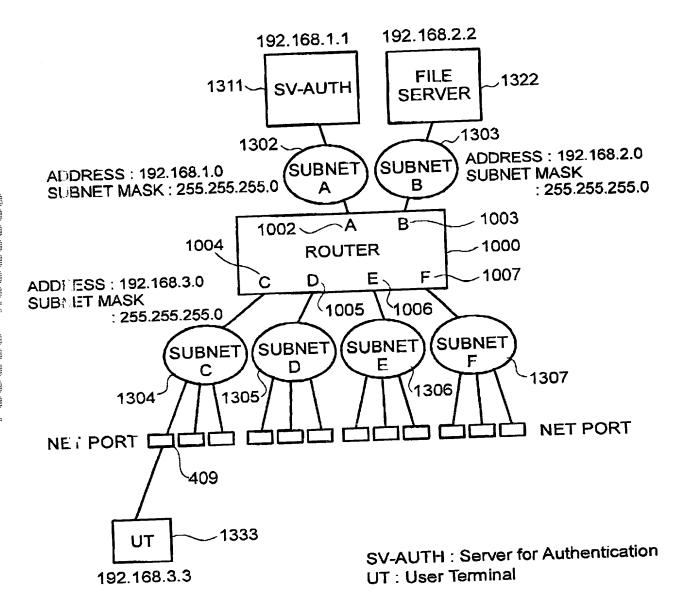
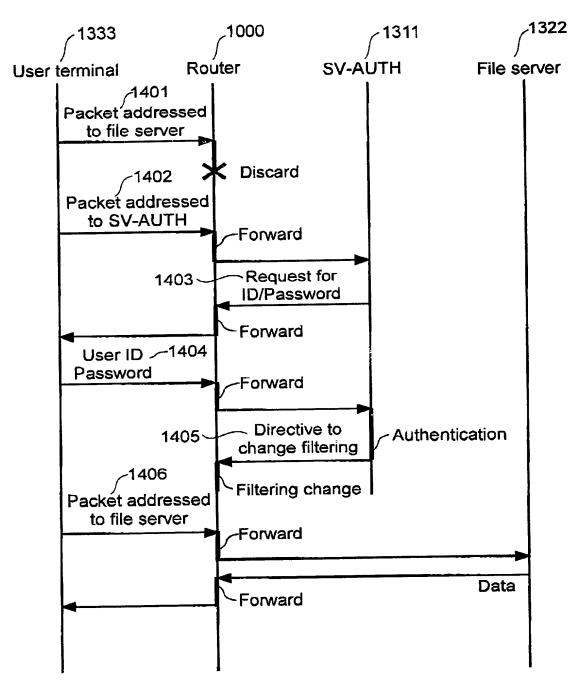


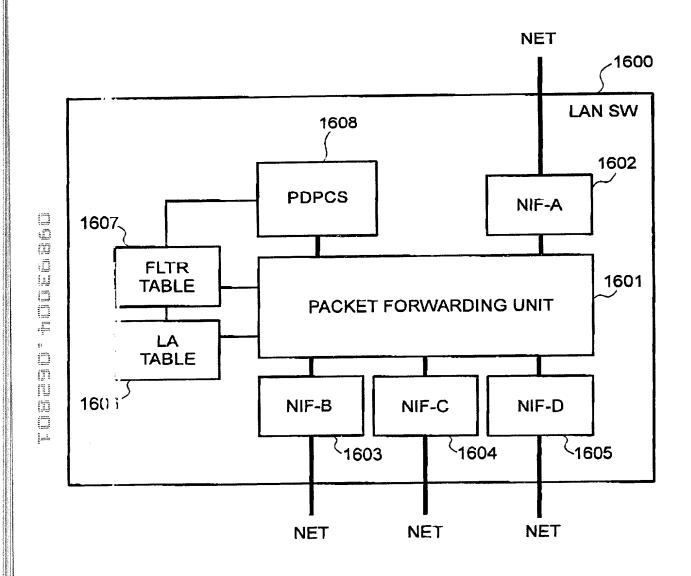
FIG.14



SV-AUTH: Server for Authentication

1101	1201	1202 	1203
#	Dest. Addr. Condition	Source Addr. Condition	Forward/Discard Flag
1	Arbitrary	192.168.3.3	Forward
2	192.168.1.1	Arbitrary	Forward
3	Arbitrary	Arbitrary	Discard

FIG.16



NIF: Network Interface

PDPCS : Processor for Directives

Packets to Change State

FLTR: Filtering

LA: Learned Address

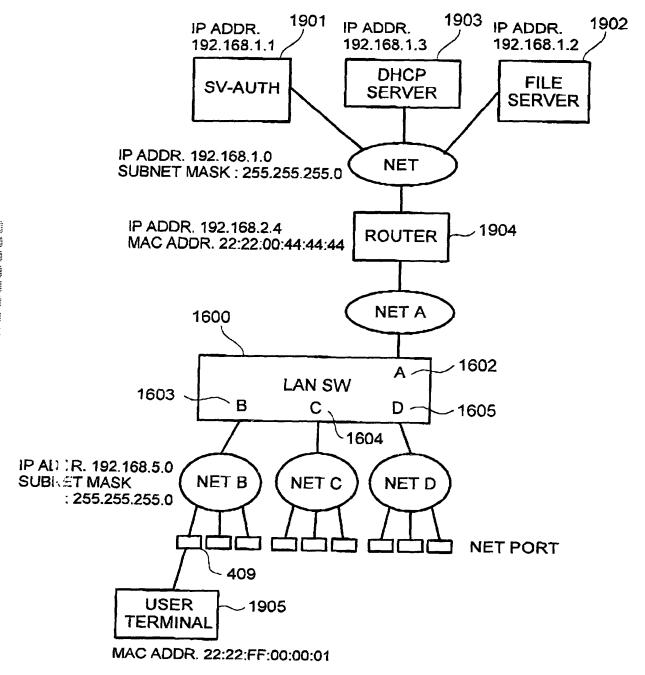
FIG.17

160	07 1701 \(\)	1702 	1703
#	MAC Address	IP Address	Connection Port
1	22:22:FF:00:00:01	Unregistered	В

FIG.18

160	06 1801 S	1802	
#	MAC Address	Connection Port	
1	22:22:00:44:44:44	Α	

FIG.19



SV-AUTH: Server for Authentication

FIG.20

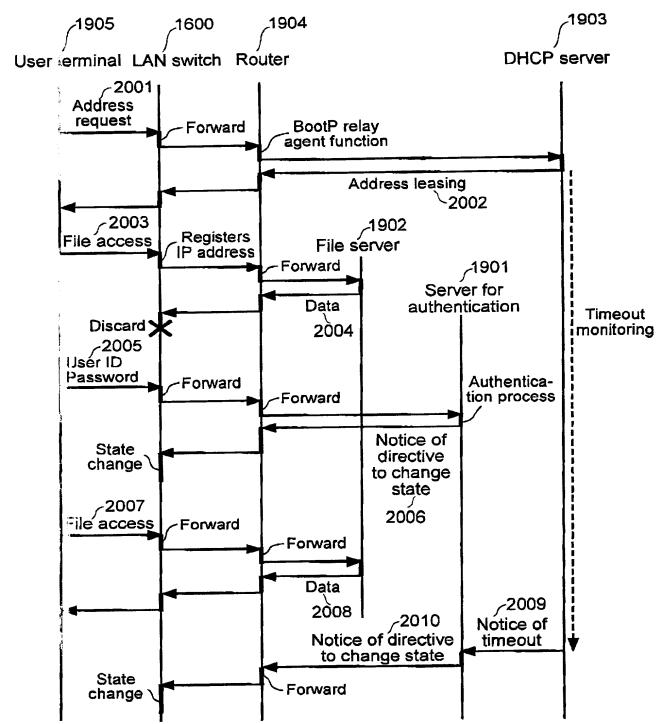
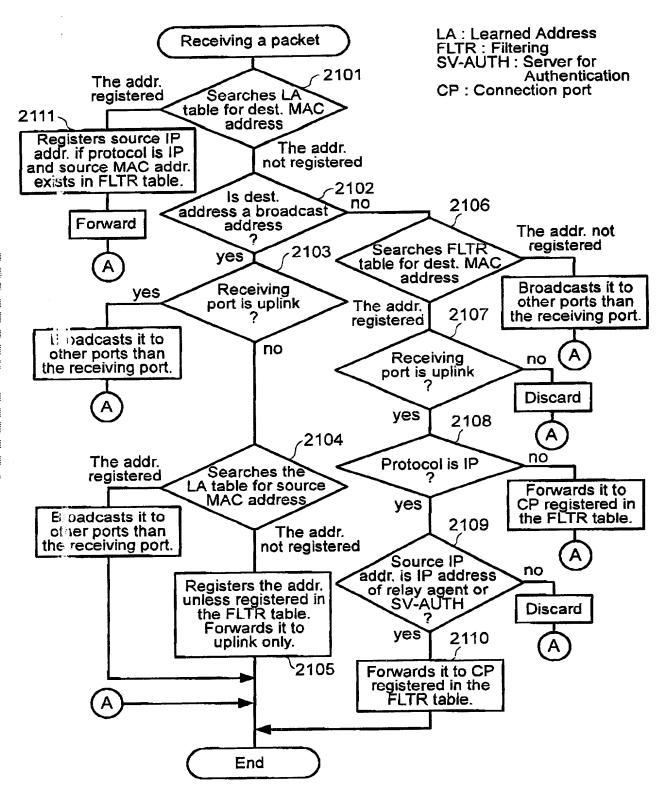


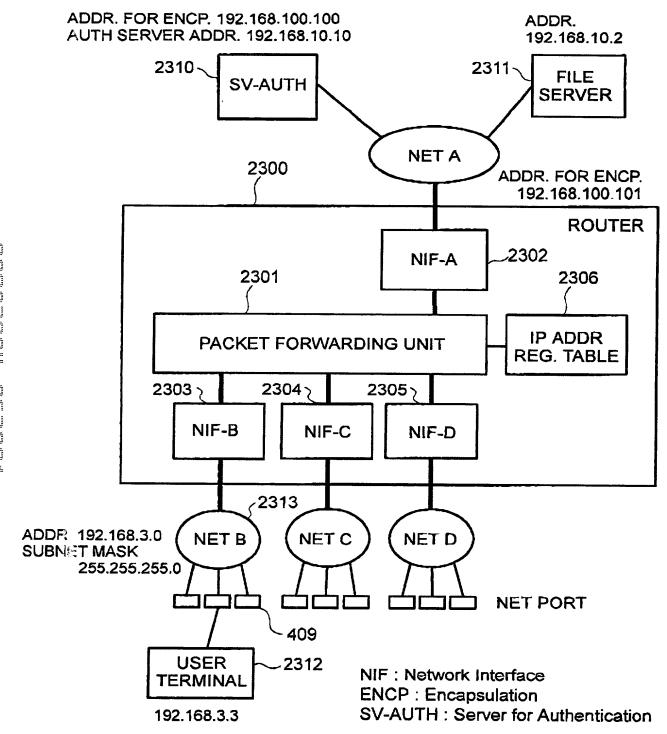
FIG.21

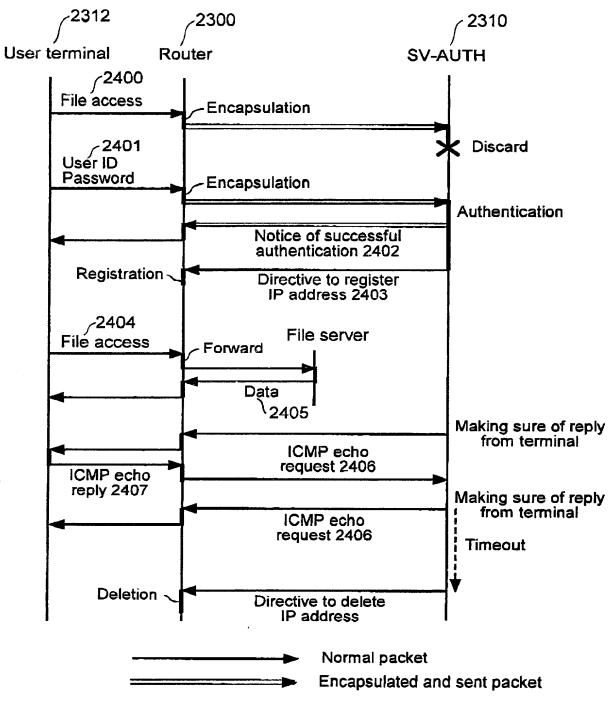


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160	06 1801 \$	1802 \$
#	MAC Address	Connection Port
1	22:22:00:44:44:44	Α
2	22:22:FF:00:00:01	В

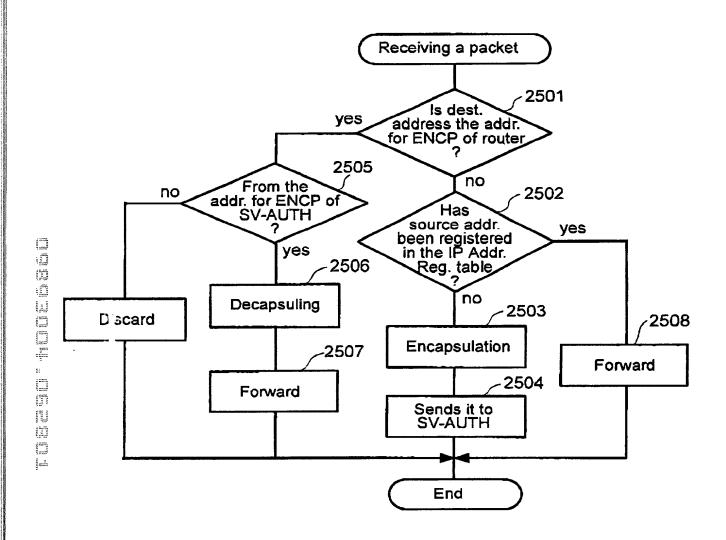
FIG.23





SV-AUTH: Server for Authentication

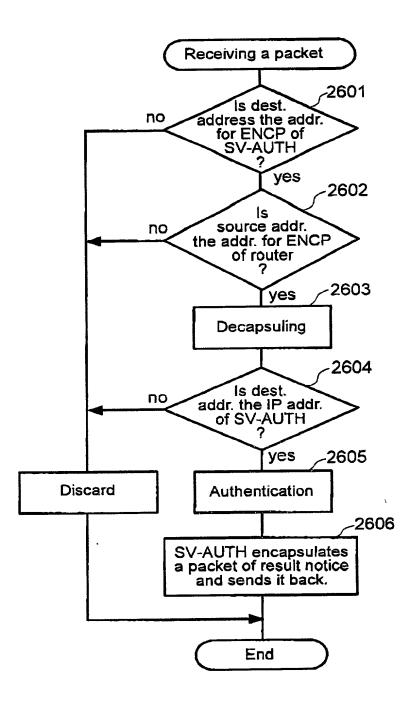
FIG.25



ENCP: Encapsulation

SV-AUTH: Server for Authentication

FIG.26

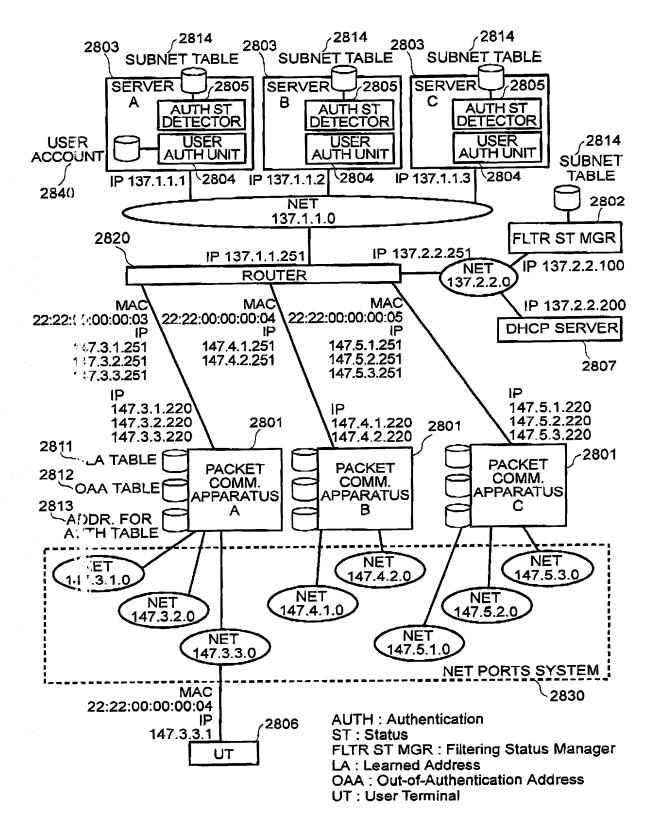


ENCP: Encapsulation

SV-AUTH: Server for Authentication

FIG.27

2306 192. 168. 10. 2 192. 168. 10. 10



_28	2814 2901 2902 SUBNET TABLE 2903 2904					
#	Subnet Addr.	Subnet Mask	IP Addr. of FLTR ST MGR	IP Addr. of Packet comm. apparatus		
1	147.3.1.0	255.255.255.0	137.2.2.100	147.3.1.220		
2	147.3.2.0	255.255.255.0	137.2.2.100	147.3.1.220		
3	147.3.3.0	255.255.255.0	137.2.2.100	147.3.1.220		
4	147.4.1.0	255.255.255.0	137.2.2.100	147.4.1.220		
5	147.4.2.0	255.255.255.0	137.2.2.100	147.4.1.220		
6	147.5.1.0	255.255.255.0	137.2.2.100	147.5.1.220		
7	147.5.2.0	255.255.255.0	137.2.2.100	147.5.1.220		
8	147.5.3.0	255.255.255.0	137.2.2.100	147.5.1.220		

FIG.30

TABLE. ADDRESS FOR AUTH

2813	#	Server Addr.
	1	137. 1. 1. 1
	2	137, 1, 1, 2
	3	137, 1, 1, 3

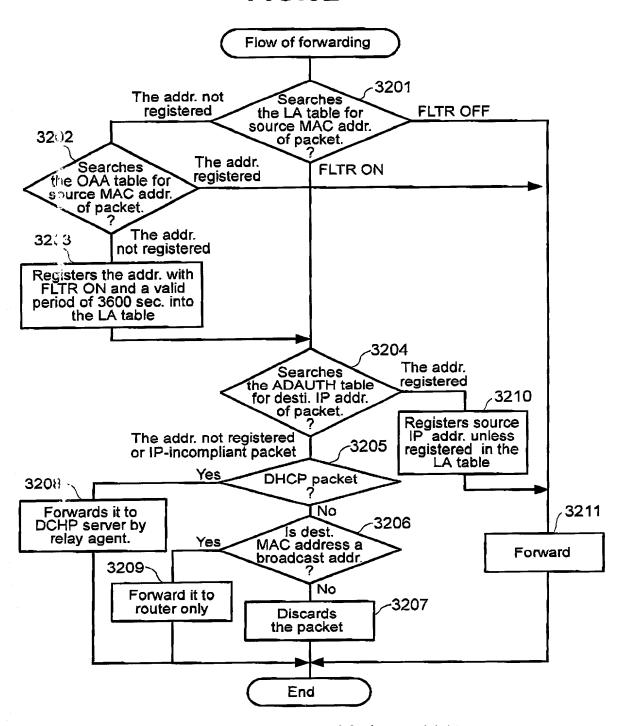
FIG.31

TABLE. OUT-OF-AUTH ADDRESS (PACKET COMM. APPARATUS A)

2812	#	Out-of-AUTH Addr.
	1	22:22:00:00:00:03

AUTH: Authentication

FLTR ST MGR : Filtering Status Manager

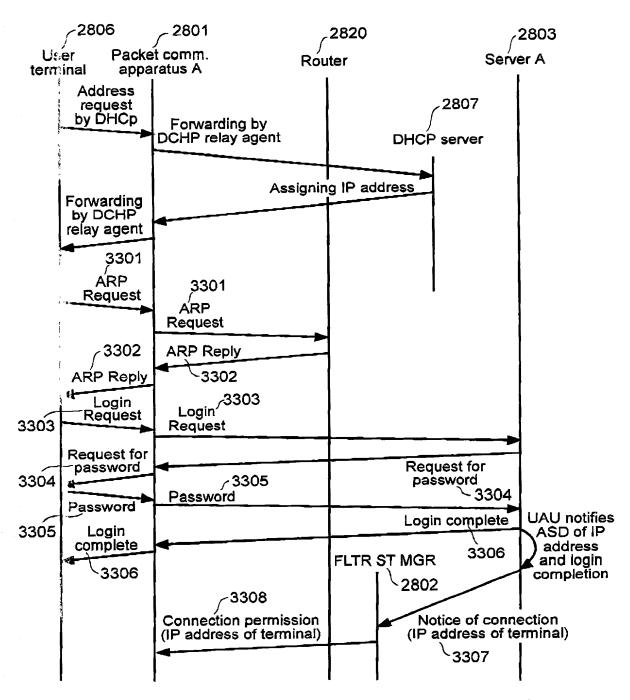


LA: Learned Address

OAA: Out-of-Authentication Address

FLTR: Filtering

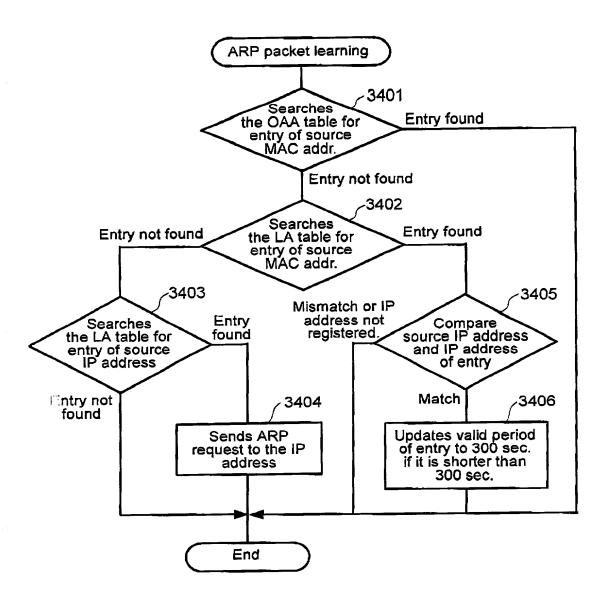
ADAUTH: Address for Authentication



UAU: User Authentication Unit

ASD: Authentication States Detector

FLTR ST MGR : Filtering Status Manager



LA: Learned Address

OAA: Out-of-Authentication Address

2811

LEARNED ADDR. TABLE

#	MAC Addr.	iP Addr.	Status	Valid Period
1	22:22:00:11:11:11	0.0.0.0	Filtering ON	3600 sec.

FIG.36

28*1

LEARNED ADDR. TABLE

#	MAC Addr.	IP Addr.	Status	Valid Period
1	12:22:00:11:11:11	147.3.3.1	Filtering ON	3600 sec.

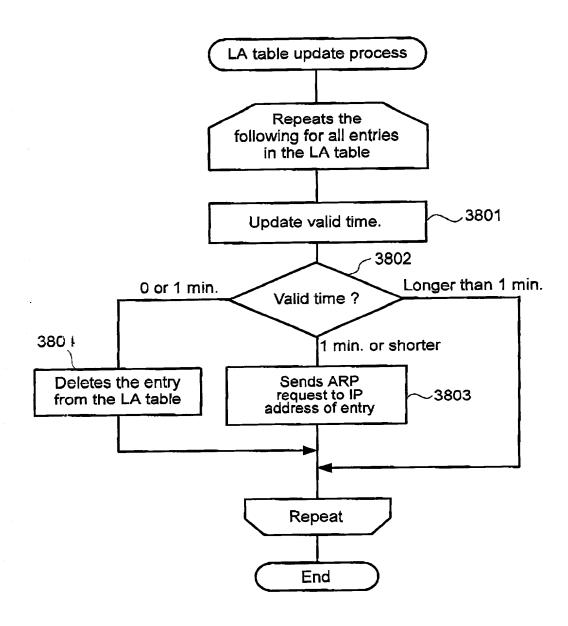
FIG.37

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LEARNED ADDR. TABLE

#	MAC Addr.	IP Addr.	Status	Valid Period
1	2 2:22:00:11:11:11	147.3.3.1	Filtering OFF	300 sec.

FIG.38



LA: Learned Address